	Application No.	Applicant(s)
Notice of Allowability	10/823,458	MENON ET AL.
	Examiner	Art Unit
	Zia R. Hashmi	2881
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm GHTS. This application is:	n this application. If not included unication will be mailed in due course. THIS
2. The allowed claim(s) is/are <u>1-20</u> .		
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must be comply including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	been received. been received in Application cuments have been received of this communication to file ENT of this application.  itted. Note the attached EX es reason(s) why the oath of the submitted. on's Patent Drawing Reviews a Amendment / Comment of	on No  Indicate the distance of the second stage application from
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the sheet. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	he header according to 37 Cl sit of BIOLOGICAL MAT	FR 1.121(d). ERIAL must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 2/28/2006.  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), /Mail Date Summary (PTO-413), Summary (PTO-4

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## **DETAILED ACTION**

1. A request for continued examination application was received on February 2, 2006, together with an Information Disclosure Statement. The cited references were expressly considered for further prosecution of this application. No grounds of rejection were revealed after considering the cited references.

## Allowable Subject Matter

- 2. Claims 1-20 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
- 4. With respect to independent claims 1 and 11, prior art fails to disclose a method or apparatus for providing error correction in an imaging system, the system comprising: error determination means for determining an amount of error associated with a spot at (x,y) in a binary pattern to be imaged; determination means for determining the location of a nearest exposed spot at (xi,yi) for each spot at (x,y); and dose modification means for modifying an exposure dose at the nearest exposed spot at (xi,yi) for each spot (x,y); and dose modification means for modifying an exposure dose at the nearest exposed spot at the nearest exposed spot (xi,yi) for each spot (x,y).
- 5. With respect to independent claims 7 and 17, prior art fails to disclose a method or apparatus for providing error correction in a lithographic imaging system, the system comprising: exposed pattern simulation means for simulating an exposed pattern of a binary pattern to be imaged; thresholding means for determining a thresholding pattern by applying a thresholding function to the exposed pattern; error determination means for determining an amount of error associated with a spot at (x,y) in a binary pattern to

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be imaged corresponding to a difference between the thresholding pattern and the binary pattern; determination means for determining the location of a nearest exposed spot (xi,yi) for each spot (x,y); and dose modification means for modifying an exposure dose at the nearest exposed spot at (xi,yi) for each spot at (x,y).

Claims 2-6, 8-10, 12-16, and 18-20 are allowed by virtue of their dependencies on the independent claims 1, 7, 11, and 17.

## Conclusion

- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments of Statement of Reasons for Allowance".
- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact Electronic Business Center (EBC) at 866-217-9197 (toll-free).
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zia Hashmi whose telephone number is (571) 272-2473. The examiner can normally be reached between 8.30 AM- 5 PM. If attempts to reach

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the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-2477.

Zia Hashmi

May 15, 2006.

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